Annual Report 2008

Production Sector

OMB Control No. 2060-0328
Expires 07/31/2011

Company Information

Company Name: **ConocoPhillips**
Gas STAR Contact: **Alena Jonas**
Title **Sr. Environmental Consultant**
Address: **P.O. Box 2197**
3WL 5046
City: **Houston**
State: **TX**
Zip: **77252**
Phone: **832-486-2423**
Fax: **832-486-2296**
E-mail: **Alena.jonas@conocophillips.com**

Access iSTAR QA/QC 7/14/09 DF
New Process 8/20/09 DF

Company Information Updated: **Yes**

Activities Reported

BMP1: No BMP2: No BMP3: Yes

Total Methane Emission Reductions Reported This Year: **1,177,281**

total = 1,315,082 MCF

Previous Years' Activities Reported: **No**

Period Covered by Report

From: **01/01/2008** To: **12/31/2008**

☑ I hereby certify the accuracy of the data contained in this report.

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

GCBU - S TX ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

Conditions Monitoring and Optimization ✓

Please describe how your company implemented this PRO:

The condition monitoring and optimization group identify and repairweaknesses in processes and equipment to prevent failure and increase productivity. ✓

C. Level of Implementation ✓

Other: monthly inspections ✓

D. Methane Emissions Reduction ✓

Methane Emissions Reduction: **503,700 Mcf/year** ✓

Basis for the emissions reduction estimate: **Other** ✓

estimates per # leaks found, line pressure, some measured ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

✓ ✓ One-year Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): $ _____

G. Total Value of Gas Saved
Value of Gas Saved: **$ 3,525,900**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU - Uinta Basin

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M: survey and repair leaks

Please describe how your company implemented this PRO:

Voluntary leak detection and repair program, surveyed four facilities per month.

C. Level of Implementation

Other: 24 Facilities

D. Methane Emissions Reduction

Methane Emissions Reduction: **200 Mcf/year**

Basis for the emissions reduction estimate: **Other**

NGS surface facility directed inspection guidance

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 672** ✓

G. Total Value of Gas Saved
Value of Gas Saved: **$ 1,400** ✓
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU - Rockies ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M: survey and repair leaks ✓

Please describe how your company implemented this PRO:

FLIR camera facility surveys ✓

C. Level of Implementation

Other: 3 assets surveyed ✓

D. Methane Emissions Reduction ✓

Methane Emissions Reduction: **1,648 Mcf/year** ✓

Basis for the emissions reduction estimate: **Actual field measurement** ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ ✓ Multi-year

If Multi-year:

✓ ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 4,000** ✓

G. Total Value of Gas Saved
Value of Gas Saved: **$ 11,536** ✓
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: **Continue using FLIR in L48 operations** ✓

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

SJBU ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

Gas Powered Chemical Injection Pumps converted to Solar Powered ✓

Please describe how your company implemented this PRO:

Converted gas-powered chemical injection pumps to solar-powered pumps ✓

C. Level of Implementation

Other: 363 units ✓

D. Methane Emissions Reduction ✓

Methane Emissions Reduction: **33,033 Mcf/year** ✓

Basis for the emissions reduction estimate: **Other** ✓

API Compendium assumptions of 248 scfd/pump ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ ✓ Multi-year

If Multi-year:

✓ ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 1,560,900**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 231,231**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: **Plan to continue this program**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU - Panhandle ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

Install electric motors (10 years) ✓

Please describe how your company implemented this PRO:

Replace 3 existing gas engines and installed 3 new electric engines ✓

C. Level of Implementation

Number of units installed: 6 units ✓

D. Methane Emissions Reduction ✓ ✓

Methane Emissions Reduction: **2,289 Mcf/year**

Basis for the emissions reduction estimate: **Calculation using manufacturer specifications** ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ ✓ Multi-year

If Multi-year:

✓ ✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 1,271,500**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 16,023**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

There is significant value of fuel savings, or fuel that is not burned which stays in the pipeline. This is estimated to be an additional $319,162. Since the report only asked for methane EMISSIONS saved, we did not include the additional amount of gas not burned, wh would have been about 45,594 mcf.

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU - Piceance Basin

B. Description of PRO

Please specify the technology or practice that was implemented:

Install Solar-Powered Chemical Pumps

Please describe how your company implemented this PRO:

Installation of solar-powered chemical injection pumps instead of pneumatic in new wells.

C. Level of Implementation

Other: 10 Wells

D. Methane Emissions Reduction

Methane Emissions Reduction: **1,215 Mcf/year**

Basis for the emissions reduction estimate: **Other**

SLA pneumatic loss per day:
1.11 x 365 days x 10 units x 30% derate days

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 35,000**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 8,505**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU-Piceance Basin ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

Installing plunger lift systems at gas wells (10 years) ✓

Please describe how your company implemented this PRO:

Selected this approach as alternative to blowdown ✓

C. Level of Implementation

Number of units installed: 3 units ✓

D. Methane Emissions Reduction ✓

Methane Emissions Reduction: **33,000 Mcf/year** ✓

Basis for the emissions reduction estimate: **Other** ✓

Used production information of frequency and duration x avg well production to estimate savings ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 39,000**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 231,000**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: **Continue to evaluate across L48**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

SJBU ✓

B. Description of PRO

Please specify the technology or practice that was implemented:

Perform reduced emissions completions ✓

Please describe how your company implemented this PRO:

Closed-loop after-frac cleanout process during well completions ✓

C. Level of Implementation ✓
Number of units installed: 23 units

D. Methane Emissions Reduction ✓
Methane Emissions Reduction: **105,103 Mcf/year** ✓

Basis for the emissions reduction estimate: **Actual field measurement** ✓

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

✓ ✓ One-year Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 257,600**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 735,721**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: **Expanding closed-loop completions program**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

GCBU - ALATEX

B. Description of PRO

Please specify the technology or practice that was implemented:

Perform reduced emissions completions

Please describe how your company implemented this PRO:

Closed-loop flow-back process used during completions

C. Level of Implementation

Number of units installed: 120 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **397,800 Mcf/year**

Basis for the emissions reduction estimate: **Other**

Estimated based on measured reductions from other green completions

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

✓ One-year Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): **$ 360,000** ✓

G. Total Value of Gas Saved

Value of Gas Saved: **$ 2,784,600** ✓

$ / Mcf used: **$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

Cost estimated at $3000/completion ✓

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New PRO approved by EPA - 8/18/09

"Install pilotless burner controls"

BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

SJBU

B. Description of PRO

Please specify the technology or practice that was implemented:

Pilotless Burner Controls

Please describe how your company implemented this PRO:

Install Surefire pilotless burner controls ?

C. Level of Implementation

Other: 4 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **520 Mcf/year**

Basis for the emissions reduction estimate: **Other**

10 years

Assumed 130 mcf methane/year/unit

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 20,000**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 3,640**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

GCBU - S TX

B. Description of PRO

Please specify the technology or practice that was implemented:

Replacement of Soap Launchers by Plunger Lifts

Please describe how your company implemented this PRO:

Optimized emissions from well venting by using a better technology to lift fluids from gas wells

C. Level of Implementation

Other: 349

D. Methane Emissions Reduction

Methane Emissions Reduction: **145 Mcf/year**

Basis for the emissions reduction estimate: **Other**

Engineering calculation

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): $ _____

G. Total Value of Gas Saved
Value of Gas Saved: **$ 1,015**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

GCBU - ALATEX

B. Description of PRO

Please specify the technology or practice that was implemented:

Solar Powered Chemical Injection Pumps

Please describe how your company implemented this PRO:

Replace pneumatic pumps with solar-powered

C. Level of Implementation

Frequency of activity or practice: 180 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: **98,550 Mcf/year**

Basis for the emissions reduction estimate: **Other**

Engineering estimate

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 2,160,000** ✓

G. Total Value of Gas Saved
Value of Gas Saved: **$ 689,850** ✓
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

Cost estimate uses $12,000/pump ✓

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8/18/09- EPA determined that the partner can't take methane emissions reductions credit for this activity.

BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

MCBU - Piceance Basin

B. Description of PRO

Please specify the technology or practice that was implemented:

Wind/Solar Automation Package

Please describe how your company implemented this PRO:

Wind/Solar energy generation to power onsite automation versus thermoelectric unit (second preferred option)

C. Level of Implementation

Other: Original installation

D. Methane Emissions Reduction

Methane Emissions Reduction: **78 Mcf/year**

Basis for the emissions reduction estimate: **Other**

3cfh fuel use for TEC-8 thermoelectric generator x 365days x 30% derate due to first delivery

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year ✓ Multi-year

If Multi-year:

✓ Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary
Estimated cost of implementing the PRO (including equipment and labor): **$ 30,000**

G. Total Value of Gas Saved
Value of Gas Saved: **$ 546**
$ / Mcf used: **$ 7.00**

H. Planned Future Activities
To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * ($)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved ($)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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Additional Accomplishments

From: Allison Berkowitz
To: Kosa, Jay; Lukehart, Rochelle
Date: 7/6/2009 12:25 PM
Subject: Fwd: RE: : ConocoPhillips - additional NGS entry

Please work with Jay on this. Thank you

Allison Berkowitz
484-341-8095

>>> "Jonas, Alena" <Alena.Jonas@conocophillips.com> 7/6/2009 12:24 PM >>>
Allison, here are the corrected numbers for the 2008 South Texas closed loop complemtion projects: ✓

1.. Level of Implementation:
* Number of Units installed (units); or 40 ✓
* Frequency of practice (times/year)

2. Methane emissions reduction: 137,879____(Mcf) ✓

3. Cost Summary: Estimated cost of implementing this practice/activity:
$3,500/day x 2 days = $7,000/ flowback. Total for all 40 would be ~$280,000 ✓

4. Basis of the emission reduction estimate:
* Actual field measurement ✓

5. Total value of Gas Saved: __$$ ($/Mcf basis)
At $5/Mcf $689,395
At $7/Mcf $965,153 ✓

Please call me if you have any questions

Thank you.

Alena.

Alena Jonas
Principal Environmental Consultant - Upstream, L48
ConocoPhillips

Phone: 832.486.2727
Cell: 832.766.7766
Fax: 832.486.3921

> _____
> From: Jonas, Alena <Alena.Jonas@conocophillips.com>
> Sent: Monday, May 18, 2009 3:18 PM
> To: Jonas, Alena <Alena.Jonas@conocophillips.com>; 'Allison
> Berkowitz' <Allison.Berkowitz@erg.com>
> Subject: RE: ConocoPhillips - additional NGS entry
>
> Sorry Allison, we will be re-estimating this data - I was just told
> more than just flowback gas was included in the numbers below. They
> will re-calculate the data with just the days of flowback included,
> which would otherwise have been vented.
>
> Please disregard this data, I will send you an update.
>
> Thank you.

>
> Alena.
>
> _____
> From: Jonas, Alena
> Sent: Monday, May 18, 2009 11:03 AM
> To: Allison Berkowitz
> Cc: Jonas, Alena
> Subject: ConocoPhillips - additional NGS entry
> Importance: High
>
> Allison,
>
> I submitted the ConocoPhillips Production 2008 NGS report on Friday.
> I just received this today, and would like the data to be added to our
> report. It is pretty significant from a volume standpoint - it falls
> in the category of 'reduced emissions completions' .
>
> I am sorry this is late, our resources in the field did not get the
> data pulled together in time for my submission.
>
> Please let me know if this can be done.
>
> Thank you.
>
> Alena Jonas
> Principal Environmental Consultant - Upstream, L48
> ConocoPhillips
>
> Phone: 832.486.2727
> Cell: 832.766.7766
> Fax: 832.486.3921
>
>
> _____
> From: Branning, Kate K
> Sent: Monday, May 18, 2009 9:45 AM
> To: Jonas, Alena; Hensley, Marvin R.; Guajardo, Rene D
> Subject: GHG Flowbacks- STX
>
> 1.. Level of Implementation:
> * Number of Units installed (units); or 58 flowbacks done
> * Frequency of practice (times/year)
>
> 2. Methane emissions reduction: 1,363,700 (Mcf)
>
> 3. Cost Summary: Estimated cost of implementing this
> practice/activity: $1,421,000
> $3,500/day (cost of flow back package) x 7 days (average amount of
> days flowback package spends on each well) x 58 (# of flowbacks in
> 2008) = $1,421,000 cost
>
> 4. Basis of the emission reduction estimate:
> * Actual field measurement- see attached for supporting
> documentation.
> * Other
>
> 5. Total value of Gas Saved: see below- wasn't sure what dollar
> amount we are using for an Mcf:
> $7 x 1,363,700 = $9,545,600
> $5 x 1,363,700 = $6,818,000
>